

# Heavy Duty Hydraulic Setting Tool

The Heavy-Duty Hydraulic Setting Tool (1) is a rugged setting tool that can be used to run any downhole equipment requiring Baker 20 or E4 setting tool design. It can also be used to set the hanger and adapter for casing patch systems where pack-off weight is limited (shallow/horizontal wells). It can be run with an inner circulating string to tie in the lower patch adapter.

The Heavy-Duty Hydraulic Setting Tool is designed to be used where additional setting force and/or longer setting stroke is needed for use with permanent patches, larger hydraulic liner packers, and large plugs. It's capable of setting forces of 100,000 lbs and higher. The Heavy-Duty Hydraulic Setting Tool can be circulated into place or sealed off to keep fill from coming into the drill pipe.

A variety of setting adapters are used in conjunction with the Heavy-Duty Hydraulic Setting Tool.

## Casing Patch Hydraulic Shear System

The Casing Patch Hydraulic Shear System (2) is used with the Heavy-Duty Hydraulic Setting Tool to set the SS Thermal Shear Adapter bottom patch assembly. Tubing can be run between the setting tool and the shear system. The shear system is run on the bottom patch assembly previous to running inner circulating string and is latched into by the inner string with a ratchet thread system.

Shear rings are available in various ranges. Upon shearing, all setting equipment is returned to the surface.

## Features

- **No pulling or rotating to set**
- **Uses only hydraulic pressure down tubing or drill pipe to set**
- **Can circulate both ways after setting**
- **Pipe can fill while tripping in**
- **Can set a variety of packers, seal bore packers, bridge plugs, and WRs**
- **Drains while pulling out of hole**
- **Can be run with a packer if needed to pressure test tool being set**



## Straight Hydraulic Setting Tool

## Service Equipment

The Straight Hydraulic Setting Tool is a rugged setting tool that can be used to run all types of equipment in wells where it is more economical or practical to run on tubing. It will adapt to any tool that can be run on a Baker 20 or E4 wireline tool.

### Features

- No pulling or rotating to set
- Uses only hydraulic pressure down tubing or drill pipe to set
- Can circulate both ways after setting
- Pipe can fill while tripping in
- Can set a variety of packers, seal bore packers, bridge plugs, and WRS Bridge Plugs
- Drains while pulling out of hole
- Can be run with a packer if needed to pressure test tool being used.

### Operation

The bridge plug or packer is made up on SETS tool and ran in to wellbore to desired depth. The kelly line is hooked into the pipe and then filled. Pressure is applied slowly on the setting tool. The tool will then start to set equipment at 1.400 kPa. The tool will shear off of the tool being set and shift open the circulating valve. All the pressure will have bled off and the tool may be pulled.

